## Amendments to the Claims

The listing of claims below will replace all prior versions and listings of claims in the present application.

## Claim Listing



- 1. (Currently Amended) A system for producing holographic stereograms (holograms) on-demand by an individual customer, from source material provided by the customer, comprising:

  at least one a data acquisition station, each having a data acquisition processor that receives image data based on the source material and a customer-based preview processor that displays a representation of the hologram for viewing by the customer;

  an image processing station, each having an image processor operable to generate hogel data based on image data received from the data acquisition station; and

  a printing station having a spatial light modulator for receiving the hogel data from the image processor and for displaying holographic object images, and having a printer for producing a master holographic stereogram; wherein the data acquisition station is in data communication with the image processing station and the printing station.
- 2. (Original) The system of Claim 1, wherein the data acquisition station is remote from the image processing station and the printing station.
- 3. (Original) The system of Claim 1, wherein the image processing station also has an operator-based preview processor operable to display a representation of the hologram for viewing by an operator of the image processor.
- 4. (Original) The system of Claim 1, wherein the data acquisition station is a personal computer.

1	5. (Original) The system of Claim 4, wherein the data communication is
2	accomplished via the Internet.
1	6. (Original) The system of Claim 4, wherein the data acquisition processor and
2	the customer-based preview processor execute with programming downloaded to the
3	personal computer.
1	7. (Original) The system of Claim 4, wherein the customer-based preview
2	processor displays preview images generated at a remote server.
1	8. (Original) The system of Claim 1, wherein the data acquisition processor
2	receives at least input from a video source.
1	9. (Original) The system of Claim 1, wherein the data acquisition processor
2	receives at least input from two dimensional printed material.
1	10. (Original) The system of Claim 1, wherein the data acquisition station further
2	has a compositing processor for combining image data from different source material.
1	11. (Original) The system of Claim 1, wherein the data acquisition station further
2	has a graphics database for storing image data to be added to image data provided by a
3	customer.
1	12. (Original) The system of Claim 1, wherein the data acquisition station further
2	has a digitizer for providing image data from source material provided by a customer.
1	13. (Original) The system of Claim 1, further comprising a replicating station for
2	producing hologram copies from the master hologram.

14. (Original) The system of Claim 1, wherein the image processing station and

printing station are geographically remote and in data communication.

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1	15. (Original) The system of Claim 1, wherein the data acquisition processor
2	delivers 2D sequence data to the image processor.
1	16. (Original) The system of Claim 1, wherein the data acquisition processor
2	delivers computer generated 3D graphics data to the image processor.
1	17. (Original) A method for producing holographic stereograms (holograms) on-
2	demand for an individual customer, from customer-provided source material, comprising
3	the steps of:
4	acquiring image data at a data acquisition station having a data acquisition
5	processor that receives image data based on the source material and a
6	customer-based preview processor that displays a representation of the
7	hologram for viewing by the customer;
8	delivering the image data to an image processing station having an image
9	processor operable to generate hogel data based on image data received
10	from the data acquisition station; and
11	delivering the hogel data to a printing station having a spatial light modulator for
12	receiving the hogel data from the image processor and for displaying
13	holographic object images, and having a printer for producing a master
14	holographic stereogram.
1	18. (Original) The method of Claim 17, wherein the data acquisition station is
2	remote from the image processing station and the printing station.
1	19. (Original) The method of Claim 17, wherein the image processing station
2	also has an operator-based preview processor operable to display a representation of the
3	hologram for viewing by an operator of the image processor.
1	20. (Original) The method of Claim 17, wherein the data acquisition station is a
2	personal computer.

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1	21. (Currently Amended) The method of Claim 20, wherein the data acquisition
2	station is in data communication with the image processing station and the printing
3	station, and wherein the data communication is accomplished via the Internet.
1	22. (Original) The method of Claim 20, wherein the data acquisition processor
2	and the customer-based preview processor execute with programming downloaded to the
3	personal computer.
1	23. (Original) The method of Claim 20, wherein the customer-based preview
2	processor displays preview images downloaded from a server.
1	24. (Original) The method of Claim 17, wherein the data acquisition processor
2	receives at least input from a video source.
1	25. (Original) The method of Claim 17, wherein the data acquisition processor
2	receives at least input from two dimensional printed material.
1	26. (Original) The method of Claim 17, further comprising the step of
2	compositing image data from different source material.
1	27. (Original) The method of Claim 26, wherein the compositing occurs at the
2	
_	data acquisition station.
1	28. (Original) The method of Claim 26, wherein the compositing occurs at a
2	server site, such that the pre-view processor displays composited preview images
3	downloaded from the server site.
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1	29. (Original) The method of Claim 17, wherein the image processing station
2	and printing station are geographically remote and in data communication.

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- 1 30. (Original) The method of Claim 17, wherein the data acquisition processor
- 2 delivers 2D sequence data to the image processor.



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- 31. (Original) The method of Claim 17, wherein the data acquisition processor
- delivers computer generated 3D graphics data to the image processor.